

What is Wellogic?

Wellogic is the Internet-based data entry program developed by the Michigan Department of Environmental Quality (DEQ) to provide an easy method for water well drilling contractors to submit well records. Water well and pump records and abandoned well plugging records are entered into the database. Electronic well record submittal satisfies state and county well record submittal requirements, as stated in the Well Construction Code.

Well records describe the construction details of groundwater wells. Data such as well depths, types, thicknesses of geologic formations penetrated, and groundwater pumping rates are obtained from well logs. Contractors are required by state law to file the well records after well completion.

The Wellogic data is commonly used for groundwater mapping and statistical analysis by: the state of Michigan, local health departments, consultants, geologists, and universities. The data is available for download from the Center for Geographic Information at www.michigan.gov/cgi.

Well records contained in Wellkey (the old statewide groundwater database that is no longer in use) were migrated into Wellogic. In addition, records from January 2000 and later are entered into Wellogic by contractors, local health departments, and the DEQ.

Use of the Wellogic program is free and totally voluntary. A user name and password is assigned to each user. After a well record is entered into Wellogic, it is automatically sent to the DEQ server and assigned an ID number. Each record is automatically stamped with the date and time of submittal. Local health departments retrieve the records electronically out of Wellogic and print them for review.



The DEQ provides free on-site training to those well drillers who request it.

Benefits of Wellogic

The **primary advantages** of using Wellogic are:

- Access to hundreds of thousands of water well and abandoned well records across the state.
- Aids contractors in developing accurate *bids.
- Increases efficiency in submitting well records.
- Improves the quality of the data entered.
- Reduces mailing costs and paper file storage.
- Provides a tax deduction for the computer system and internet charges.

Some **additional benefits** are:

- Allows for customized queries for rapid assessment of environmental threats.

- Operates with other software programs.
- Allows for constructing geologic cross sections.
- Links replacement wells with abandoned wells.
- Allows for importing latitude and longitude coordinates for use in mapping.
- Allows for rapid report completion.

Wellogic & Global Positioning System (GPS)

The DEQ encourages all well drillers to use GPS units to record well locations. Obtaining exact locations on wells drilled in Michigan is extremely valuable. It allows users to map geologic characteristics like depth to bedrock and water well characteristics like static water level, well depth, or flowing well areas. Well records entered into Wellogic with GPS points can be found on the Water Well Viewer website.



Latitude & longitude are collected with a GPS unit.

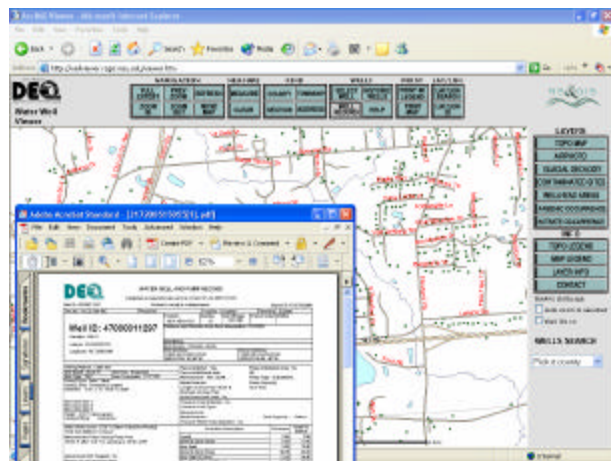
Water Well Viewer

The Water Well Viewer was developed by the DEQ and Michigan State University's Remote Sensing & GIS Research and Outreach Services.

It is a website that shows all of the water wells in Wellogic that have latitude and longitude coordinates on a map.

Aerial photos, glacial geology, topography, and contamination sources are some of the layers that can be viewed as well.

This site is available to the public at <http://wellviewer.rsgis.msu.edu>.



Both the Wellogic well records and scanned well records can be viewed in the Water Well Viewer.

Wellogic Account Access

Wellogic access is limited to those individuals that use water well records on a daily or weekly basis, such as water well contractors, local health departments, consultants, DEQ personnel, etc. To register for a Wellogic account, go to the Wellogic website www.deq.state.mi.us/wellogic and click on "Click here to learn more about Wellogic and to request an account." You may complete the online account request form and submit it electronically or print and fax it to the DEQ.

Or you may e-mail the Wellogic help at deq-dwr-wellogic@michigan.gov to request an account.

Scanned Well Records

In addition to the development of Wellogic, the DEQ completed a project to digitally scan approximately 1,000,000 well records dated 1999 and older. These records are available to the public through a website at <http://www.deq.state.mi.us/well-logs>. A user ID and password are not required to access these well records. These records can also be accessed through the Water Well Viewer.

The well records are available by county on CD from the Center for Remote Sensing at Michigan State University at a cost of \$25 per CD (<http://wellogs.rsgis.msu.edu>).

For more information please contact:

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ELECTRONIC Water Well Record Submittal



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